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EXAMINER

DANIEL JR, WILLIE J

ART UNIT	PAPER NUMBER
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2617

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09/30/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 09/877,967	Applicant(s) BEDINGFIELD ET AL.	
	Examiner WILLIE J. DANIEL JR	Art Unit 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 August 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4,6-12,14-20,22-28 and 30-33 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4,6-12,14-20,22-28 and 30-33 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is in response to applicant's RCE amendment filed on 08 August 2008. **Claims 1-4, 6-12, 14-20, 22-28, and 30-33** are now pending in the present application and **claims 5, 13, 21, and 29** are canceled. This office action is made **Non-Final**.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 08 August 2008 has been entered.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-4, 6-12, 14-20, 22-28, and 30-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over **O'Neil et al.** (hereinafter O'Neil) (US 5,963,864) in view of **Knoerle et al.** (hereinafter Knoerle) (US 6,694,004 B1).

Regarding **claim 1**, O'Neil discloses a system (see col. 8, line 43-50; Fig. 1) for providing a simultaneous ring service for a subscriber (see abstract; col. 8, line 43-50; Figs. 4a-b and 5), the system comprising:

a means (e.g., switch 16a-b) for detecting a first terminating trigger specific to the service in response to an incoming communication to a "wireline unit" (20e or 20f) which reads on the claimed "wired terminal" having a first identifier (e.g., wireline unit directory number) and associated with the subscriber from a calling party (20a-d), wherein the first terminating trigger is associated with the first identifier (e.g., wireline unit directory number) (see col. 16, lines 4-32; col. 15, lines 40-50; col. 10, line 8 - col. 11, line 24; Figs. 4a-b and 5). The system contains an AIN (Advanced Intelligent Network) which triggers an event (see col. 12, lines 25-40; col. 15, lines 1-9; Figs. 4A "step 110" and 5 "step 210"), where the switches provide triggers on how to process a call to a wireless or wireline telephone number which operates in conjunction with the SCP according to the feature or service provided. ;

a means (e.g., SCP 24) for (see Figs. 1, 4a-b, and 5):

determining, in response to a detection of the first terminating trigger, whether the wired terminal (20e) and an associated wireless terminal (34) of the subscriber are available (see col. 12, lines 5-40; col. 16, line 57 - col. 17, line 19; Figs. 4a-b and 5), where the SCP (24) exchange communication with the switch (16b),

wherein determining whether the wired terminal (20e) and the wireless terminal (34) of the subscriber are available (col. 12, lines 5-40; col. 16, line 57 - col. 17, line 19; Figs. 4a-b and 5) comprises,

determining whether the wired terminal (20e) is available (see col. 12, lines 5-40; col. 16, line 57 - col. 17, line 19; Figs. 4a-b and 5),

determining whether the wireless terminal (34) is available (see col. 12, lines 5-40; col. 16, line 57 - col. 17, line 19; Figs. 4a “ref. 108” and 5 “ref. 208”),

determining whether the wireless terminal (34) has a voice messaging system in response to determining that the wireless terminal (34) is available (see col. 9, lines 29-39; col. 29, lines 29-38; col. 1, lines 31-44; Figs. 4A-B),

the subscriber wireless number the wireless terminal is deemed unavailable (see Fig. 4a “ref. 108” and 5 “ref. 208”) and the wireless number the wireless terminal is deemed available (see col. 29, lines 22-28; Figs. 4a “ref. 108” and 5 “ref. 208”), where a check is made to see if the wireless unit is available or busy. When the wireless unit is indicated as busy, the system proceeds in a conventional manner. As further support, the system may recognize the wireless unit as the calling party to indicate a busy signal, therefore allowing the system to proceed in a conventional or normal manner.

determining if the subscriber currently has the simultaneous ring service activated, wherein if the service is not currently activated, the wireless terminal is deemed unavailable and if the service is currently activated, the wireless terminal is deemed available (see col. 16, lines 36-51; col. 17, lines 16-19; Fig. 4a “ref. 102”); and

a means for placing a first outgoing communication and a second outgoing communication in response to a determination that both the wired terminal (20e) and the wireless terminals (34) are available (see Figs. 4a “ref. 108-110” & 5 “ref. 210”),

wherein the first outgoing communication comprises a wireless call indication digit appended to the first identifier (e.g., wireline number) (see col. 16, lines 4-7; col. 20, lines 39-43; Figs. 4a-b and 5), where the system must have an indicator (e.g., flag) associated with the wireline number to indicate to look-up (or mapping or translation) a wireless number in the other (e.g., external) table or database and where the directory number for the wireless terminal is stored in the database of the SCP for the extension services provided and the system (e.g., via devices 30, 16b, 24) generate signaling messages to set up and route calls (see col. 12, line 41 - col. 13, line 8; col. 16, line 52 - col. 17, line 19; Figs. 4a-b and 5),

the wireless call indication digit (e.g., a flag) indicating that the first outgoing call is to be routed via a second identifier (e.g., wireless number) associated with the wireless terminal (34) (see col. 16, lines 4-7; col. 20, lines 39-43; Figs. 4a-b and 5), where the system must have an indicator (e.g., flag) associated with the wireline number to indicate to look-up (or mapping or translation) a wireless number in the other (e.g., external) table or database,

wherein the second identifier (e.g., wireless number) is not available to the means (e.g., services node 30) for placing the first outgoing communication and the second outgoing communication (see col. 15, lines 40-53; col. 12, lines 11-24; col. 16, lines 4-7; col. 20, lines 39-43; Fig. 1), where the directory number for the wireless terminal is stored in the database of the SCP for the extension services provided and a look-up of the wireless directory number, and

wherein the wireless call indication digit is operative to trigger a query to an associated database (i.e., other (e.g., external) table or database) for the second identifier (e.g., wireless number) (see col. 16, lines 4-7; col. 20, lines 39-43; Figs. 4a-b and 5), where the system must

Art Unit: 2617

have an indicator (e.g., flag) associated with the wireline number to indicate to look-up (or mapping or translation) a wireless number in the other (e.g., external) table or database,

wherein the means (e.g., 16b) for detecting the first terminating trigger associated with the service is further operative for routing the second outgoing communication to the wired terminal and for detecting a second terminating trigger (e.g., another trigger) associated with the wireless terminal in response to the first outgoing communication (see col. 15, lines 40-50; col. 16, lines 4-30; col. 16, line 57 - col. 17, line 19; Figs. 4a-b and 5). The system contains an AIN (Advanced Intelligent Network) which triggers an event (see col. 12, lines 25-40; col. 15, lines 1-9; Figs. 4A “step 110” and 5 “step 210”), where the switches provide triggers on how to process a call to a wireless or wireline telephone number which operates in conjunction with the SCP according to the feature or service provided, and

wherein the means (e.g., 24) for determining whether the wired terminal (20e) and the associated wireless terminal (34) of the subscriber are available, in response to detection of the second terminating trigger (e.g., another trigger) and the wireless call indication digit associate with the first outgoing communication, is further operative for interrogating the associated database for the second identifier (e.g., wireless unit directory number) associated with the wireless terminal (34) and cause the first outgoing communication (e.g., first call or leg) to be routed (e.g., via switch 16b) to the wireless terminal (34) (see col. 15, lines 40-54; col. 16, lines 4-30; col. 16, line 52 - col. 17, line 19; col. 21, lines 5-25; col. 10, lines 28-37; col. 12, lines 18-40; Figs. 4a-b and 5), where system allows that any type of unit (wireless or wireline) can be used to direct communication with any other type of unit (wireless or wireline) (see col. 9, lines 45-60) which allows for either the wireline or wireless unit to be

Art Unit: 2617

first or second communication that meets the claiming of the first outgoing communication to the wireless telecommunication unit. The trigger causes the SCP (24) to query a database to provide subscriber information such as the services and wireless number (e.g., identifier),

wherein the second outgoing communication (e.g., second call or leg) is configured to be placed (e.g., via services node 30) a predetermined time period after placing the first outgoing communication (e.g., first call or leg) (see col. 20, line 48 - col. 21, line 13; col. 21, lines 38-48; Fig. 4a “ref. 110”), where directing a call to the wireless unit (e.g., first call or leg; 34) takes a certain time period to setup then directing the call to the wireline unit (e.g., second call or leg; 20e) so the rings would be simultaneous because of the delay through the wireless network in which the wireless terminal and wired terminal both ring at the same time, concurrently, or within a matter of time (e.g., seconds) of each other, and

wherein, if the wireless terminal (34) is determined to have the voice messaging system, the second outgoing communication configured to be placed before the first outgoing communication is answered by the voice messaging system (see col. 9, lines 29-39; col. 29, lines 29-38; col. 1, lines 31-44; Figs. 4A-B). O’Neil does not specifically disclose having the feature determining if a calling party number matches a stored subscriber wireless number, wherein if the calling party number matches the subscriber wireless number the wireless terminal is deemed unavailable and if the calling party number does not match the wireless number the wireless terminal is deemed available. However, the examiner maintains that the feature determining if a calling party number matches a stored subscriber wireless number, wherein if the calling party number matches the subscriber wireless number the wireless terminal is deemed unavailable and if the calling party number does not match the wireless

number the wireless terminal is deemed available was well known in the art, as taught by Knoerle.

In the same field of endeavor, Knoerle discloses the feature determining if a calling party number (e.g., secondary line) matches a stored subscriber wireless number (e.g., wireless line), wherein if the calling party number (e.g., secondary line) matches the subscriber wireless number (e.g., wireless line) the wireless terminal is deemed unavailable and if the calling party number (e.g., secondary line) does not match the wireless number (e.g., wireless line) the wireless terminal is deemed available (see col. 2, lines 16-37; Fig. 1), where the database (119) of SCP (116) stores records of subscribers.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of O'Neil and Knoerle to have the feature determining if a calling party number matches a stored subscriber wireless number, wherein if the calling party number matches the subscriber wireless number the wireless terminal is deemed unavailable and if the calling party number does not match the wireless number the wireless terminal is deemed available, in order to provide a simultaneous ring service to subscriber's primary and secondary lines, as taught by Knoerle (see col. 1, lines 39-42).

Regarding **claim 2**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 1), in addition O'Neil further discloses the system (Fig. 1) of claim 1, wherein the means (e.g., services node 30) for placing the first outgoing communication and the second outgoing communication is further operative for (see col. 20, line 66 - col. 21, line 13; col. 21, lines 38-48; Fig. 4a "ref. 110"):

connecting the incoming communication to the wired terminal (20e) when the wired terminal (20e) is answered before the wireless terminal (34) (see col. 21, lines 50-59; Figs. 4a-b and 5); and

connecting the incoming communication to the wireless terminal (34) when the wireless terminal (34) is answered before the wired terminal (20e) (see col. 21, lines 50-59; Figs. 4a-b and 5).

Regarding **claim 3**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 2), in addition O'Neil further discloses the system (Fig. 1) of claim 2, wherein the means (e.g., services node 30) for placing the first outgoing communication and the second outgoing communication is further operative for (see col. 20, line 66 - col. 21, line 13; col. 21, lines 38-48; Fig. 4a "ref. 110"):

dropping the first outgoing communication when the wired terminal (20e) is answered before the wireless terminal (34) (see col. 23, lines 38-67; Figs. 4a-b and 5); and

dropping the second outgoing communication when the wireless terminal (34) is answered before the wired terminal (20e) (see col. 23, lines 38-67; Figs. 4a-b and 5).

Regarding **claim 4**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 3), in addition O'Neil further discloses the system of claim 3, wherein the means (e.g., service control point 24) for determining whether the wired terminal and the associated wireless terminal of the subscriber are available includes the associated database (28, 36) storing the second identifier (e.g., wireless unit directory number) associated with the wireless terminal (34) (see col. 15, lines 40-53; col. 12, lines 11-

24; Fig. 1), where the directory number for the wireless terminal is stored in the database of the SCP for the extension services provided.

Regarding **claim 6**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 1), in addition O'Neil further discloses the system of claim 1, wherein the means (e.g., service control point 24) for determining whether the wired terminal and the associated wireless terminal of the subscriber are available is for determining whether the wired terminal (20e) is available by sending a query message to the means (e.g., switch 16b) for detecting the first terminating trigger associated with the service requesting a status of the wired terminal (20e) (see col. 16, line 66 - col. 17, line 12; col. 12, lines 25-40; Figs. 4a-b).

Regarding **claim 7**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 6), in addition O'Neil further discloses the system of claim 6, wherein the means (e.g., service control point 24) for determining whether the wired terminal and the associated wireless terminal of the subscriber are available is further operative for determining whether the wireless terminal (34) is available by sending a query message to a home location register requesting the status of the wireless terminal (34) (see col. 16, line 56-65; col. 18, line 6-19; Figs. 4a-b).

Regarding **claim 8**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 7), in addition O'Neil further discloses the system of claim 7, wherein the means (e.g., service control point 24) for determining whether the wired terminal and the associated wireless terminal of the subscriber are available is further operative for determining that the wireless terminal (34) is available when the home location

register (40) does not respond to the query message within a predetermined time period (see col. 14, lines 15-33; Figs. 1), when there is no response within a certain period of time from the HLR of the availability of the wireless unit the system will check the VLR when the wireless unit is roaming (see col. 18, line 4-19).

Regarding **claim 9**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 1), in addition O'Neil further discloses the system of claim 1, wherein the means (e.g., service control point 24) for determining whether the wired terminal and the associated wireless terminal of the subscriber are available is further operative for instructing the means (e.g., switch 16b) for detecting the first terminating trigger associated with the service to route the incoming communication to the wired terminal (20e) when the means (e.g., service control point) for determining whether the wired terminal and the associated wireless terminal of the subscriber are available determines that at least one of the wired terminal (20e) and the wireless terminal (34) are not available (see col. 16, line 52 - col. 17, line 12).

Regarding **claim 10**, O'Neil discloses a method for providing a simultaneous ring service for a subscriber (see abstract; col. 8, line 43-50; Figs. 4a-b and 5), the method comprising:

detecting an incoming communication from a calling party (20a-d) to a wired terminal (20e) associated with a first identifier (e.g., wireline unit directory number) that is associated with the subscriber from a first terminating trigger associated with the first identifier (e.g., wireline unit directory number) (see col. 8, line 43-50; col. 15, lines 40-53);

determining, in response to a detection of the incoming communication, whether the wired terminal (20e) and an associated wireless terminal (34) of the subscriber are available (see col. 16, line 52 - col. 17, line 19; Fig. 4A-B and 5),

wherein determining whether the wired terminal (20e) and the wireless terminal (34) of the subscriber are available (col. 12, lines 5-40; col. 16, line 57 - col. 17, line 19; Figs. 4a-b and 5) comprises:

determining whether the wired terminal (20e) is available (see col. 12, lines 5-40; col. 16, line 57 - col. 17, line 19; Figs. 4a-b and 5),

determining whether the wireless terminal (34) is available (see col. 12, lines 5-40; col. 16, line 57 - col. 17, line 19; Figs. 4a “ref. 108” and 5 “ref. 208”),

determining whether the wireless terminal (34) has a voice messaging system in response to determining that the wireless terminal (34) is available (see col. 9, lines 29-39; col. 29, lines 29-38; col. 1, lines 31-44; Figs. 4A-B);

wherein a directory number (e.g., wireless directory number) for the wireless terminal (34) of the subscriber is stored at a service control point (SCP 24) (see col. 15, lines 40-54; Fig. 1), where the SCP (24) stores information (i.e., wireless and wireline directory number) in database (28);

determining if the subscriber currently has the simultaneous ring service activated (see col. 16, lines 36-51; col. 17, lines 16-19; Fig. 4a “ref. 102”);

placing a first outgoing communication and a second outgoing communication when both the wired terminal (20e) and the wireless terminal (34) are available (see col. 20, line 66 - col. 21, line 48; Figs. 4A ‘ref. 110’ and 5 ‘ref. 210’),

wherein the first outgoing communication comprises a wireless call indication digit appended to the first identifier (e.g., wireline number) (see col. 16, lines 4-7; col. 20, lines 39-43; Figs. 4a-b and 5), where the system must have an indicator (e.g., flag) associated with the wireline number to indicate to look-up (or mapping or translation) a wireless number in the other (e.g., external) table or database and where the directory number for the wireless terminal is stored in the database of the SCP for the extension services provided and the system (e.g., via devices 30, 16b, 24) generate signaling messages to set up and route calls (see col. 12, line 41 - col. 13, line 8; col. 16, line 52 - col. 17, line 19; Figs. 4a-b and 5),

the wireless call indication digit (e.g., a flag) indicating that the first outgoing call is to be routed via a second identifier (e.g., wireless number) associated with the wireless terminal (34) (see col. 16, lines 4-7; col. 20, lines 39-43; Figs. 4a-b and 5), where the system must have an indicator (e.g., flag) associated with the wireline number to indicate to look-up (or mapping or translation) a wireless number in the other (e.g., external) table or database,

wherein the second identifier (e.g., wireless number) is not initially available (see col. 15, lines 40-53; col. 12, lines 11-24; col. 16, lines 4-7; col. 20, lines 39-43; Fig. 1), where the directory number for the wireless terminal is stored in the database of the SCP for the extension services provided and a look-up of the wireless directory number, and

wherein the wireless call indication digit is operative to trigger a query to an associated database (i.e., other (e.g., external) table or database) for the second identifier (e.g., wireless number) (see col. 16, lines 4-7; col. 20, lines 39-43; Figs. 4a-b and 5), where the system must have an indicator (e.g., flag) associated with the wireline number to indicate to look-up (or mapping or translation) a wireless number in the other (e.g., external) table or database,

wherein placing the first and second outgoing communications includes placing the first outgoing communication (e.g., first call or leg) a predetermined time period before placing the second outgoing communication (e.g., second call or leg) (see col. 20, line 48 - col. 21, line 13; col. 21, lines 38-48; Fig. 4a “ref. 110”), where directing a call to the wireless unit (e.g., first call or leg) takes a certain time period to setup then directing the call to the wireline unit (e.g., second call or leg) so the rings would be simultaneous because of the delay through the wireless network in which the wireless terminal and wired terminal both ring at the same time, concurrently, or within a matter of time (e.g., seconds) of each other and the system (e.g., via devices 30, 16b, 24) generate signaling messages to set up and route calls (see col. 12, lines 24-39; col. 20, line 66 - col. 21, line 13), and

wherein, if the wireless terminal (34) is determined to have the voice messaging system, the predetermined time period is configured for placing the second outgoing communication before the first outgoing communication is answered by the voice messaging system (see col. 9, lines 29-39; col. 29, lines 29-38; col. 1, lines 31-44; Figs. 4A-B);

routing the second outgoing communication to the wired terminal (20e) (see col. 21, line 2-25; Fig. 1);

detecting a second terminating trigger and the wireless call indication digit associated with the wireless terminal in response to the first outgoing communication (see col. 16, lines 4-30; col. 21, lines 13-25; Figs. 4a-b, 5), where the trigger determines the status of the wireless unit and the system (e.g., via devices 30, 16b, 24) generate signaling messages to set up and route calls (see col. 12, lines 24-39; col. 20, line 66 - col. 21, line 13); and

routing, in response to a detection of the second terminating trigger, the first communication to the wireless terminal (34) (see col. 16, lines 4-30; col. 21, line 26-48; Figs. 1, 4A-B, 5). O'Neil does not specifically disclose having the feature determining if a calling party number matches a subscriber wireless number. However, the examiner maintains that the feature determining if a calling party number matches a subscriber wireless number was well known in the art, as taught by Knoerle.

Knoerle further discloses the feature determining if a calling party number (e.g., secondary line) matches a subscriber wireless number (e.g., wireless line) (see col. 2, lines 16-37; Fig. 1). As a note, Knoerle at the least further discloses the feature wherein a directory number (e.g., wireless line) for the wireless terminal is stored at the service control point (116 SCP) (see col. 2, lines 16-37; Fig. 1). As further support, Knoerle at the least further discloses the feature(s) determining if the subscriber currently has the simultaneous ring service activated (see col. 2, lines 20-23; Fig. 1).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of O'Neil and Knoerle to have the feature determining if a calling party number matches a subscriber wireless number, in order to provide a simultaneous ring service to subscriber's primary and secondary lines, as taught by Knoerle (see col. 1, lines 39-42).

Regarding **claim 11**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 10), in addition O'Neil further discloses the method of claim 10, further comprising:

connecting the incoming communication to the wired terminal (20e) when the wired terminal (20e) is answered before the wireless terminal (34) (see col. 21, lines 50-59; Figs. 4a-b and 5); and

connecting the incoming communication to the wireless terminal (34) when the wireless terminal (34) is answered before the wired terminal (20e) (see col. 21, lines 50-59; Figs. 4a-b and 5).

Regarding **claim 12**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 11), in addition O'Neil further discloses the method of claim 11, further comprising:

dropping the first outgoing communication when the wired terminal (20e) is answered before the wireless terminal (34) (see col. 23, lines 38-67; Figs. 4a-b and 5); and

dropping the second outgoing communication when the wireless terminal (34) is answered before the wired terminal (20e) (see col. 23, lines 38-67; Figs. 4a-b and 5).

Regarding **claim 14**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 10), in addition O'Neil further discloses the method of claim 10, wherein determining whether the wired terminal (20e) is available includes sending a query message requesting a status of the wired terminal (20e) (see col. 16, line 66 - col. 17, line 12; Figs. 4a-b).

Regarding **claim 15**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 14), in addition O'Neil further discloses the method of claim 14, wherein determining whether the wireless terminal (34) is available

includes sending a query message to a home location register requesting a status of the wireless terminal (34) (see col. 16, line 56-65; col. 18, line 6-19; Figs. 4a-b).

Regarding **claim 16**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 15), in addition O'Neil further discloses the method of claim 15, wherein determining whether the wireless terminal (34) is available includes determining that the wireless terminal (34) is available when the home location register (40) does not respond to the query message within a predetermined time period (see col. 14, lines 15-33; Figs. 1), when there is no response within a certain period of time from the HLR of the availability of the wireless unit the system will check the VLR when the wireless unit is roaming (see col. 18, line 4-19).

Regarding **claim 17**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 10), in addition O'Neil further discloses the method of claim 10, further comprising routing the incoming communication to the wired terminal (20e) when it is determined that at least one of the wired terminal (20e) and the wireless terminal (34) are not available (see col. 16, line 52 - col. 17, line 12).

Regarding **claim 18**, O'Neil discloses a system for providing a simultaneous ring service for a subscriber (see abstract; col. 8, line 43-50; Figs. 1, 4a-b, and 5), comprising:

means for detecting an incoming communication from a calling party (20a-d) using a calling party terminal to a wired terminal (20e) associated with a first identifier (e.g., wireline unit directory number) that is associated with the subscriber from a first terminating trigger associated with the first identifier (e.g., wireline unit directory number) (see col. 8, line 43-50; col. 15, lines 40-50);

Art Unit: 2617

a means for determining if the subscriber currently has the simultaneous ring service activated (see col. 16, lines 36-51; col. 17, lines 16-19; Fig. 4a “ref. 102”);

means for determining, in response to a detection of the incoming communication, whether the wired terminal (20e) and an associated wireless terminal (34) of the subscriber are available (see col. 16, line 52 - col. 17, line 19; Figs. 4A-B and 5),

wherein the means for determining whether the wired terminal (20e) and the wireless terminal (34) of the subscriber are available (col. 12, lines 5-40; col. 16, line 57 - col. 17, line 19; Figs. 4a-b and 5) comprises:

means for determining whether the wired terminal (20e) is available (see col. 12, lines 5-40; col. 16, line 57 - col. 17, line 19; Figs. 4a-b and 5),

means for determining whether the wireless terminal (34) is available (see col. 12, lines 5-40; col. 16, line 57 - col. 17, line 19; Figs. 4a “ref. 108” and 5 “ref. 208”), and

means for determining whether the wireless terminal (34) has a voice messaging system in response to determining that the wireless terminal (34) is available (see col. 9, lines 29-39; col. 29, lines 29-38; col. 1, lines 31-44; Figs. 4A-B);

the wireless terminal (34) being associated with the wired terminal (20e) configured to receive the incoming communication from the calling party (see col. 15, lines 4-36; col. 20, line 48 - col. 21, line 13; col. 21, lines 38-48; Figs. 1, 4A “ref. 108 and 110”, and 4B), where the wireless terminal is associated with the wired terminal in which the terminals are able to receive incoming calls,

wherein the identifier (e.g., wireless directory number) of the wireless terminal (34) of the subscriber is stored in a service control point (SCP 24) (see col. 15, lines 40-54; Fig. 1),

Art Unit: 2617

where the SCP (24) stores information (i.e., wireless and wireline directory number) in database (28);

the identifier of the wireless terminal the wireless terminal is deemed available (see Figs. 4a “ref. 108” and 5 “ref. 208”) (see col. 29, lines 22-28), where a check is made to see if the wireless unit is available or busy. When the wireless unit is indicated as busy, the system proceeds in a conventional manner. As a note, the system may recognize the wireless unit as the calling party to indicate a busy signal, therefore allowing the system to proceed in a conventional or normal manner, and when the wireless unit is not the calling party, the system considering the wireless unit to be available.

means for placing a first outgoing communication and a second outgoing communication and associating a wireless call indication digit with the first outgoing communication when both the wired terminal (20e) and the wireless terminal (34) are available (see col. 20, line 66 - col. 21, line 48; col. 10, line 66 - col. 11, line 24; col. 15, lines 4-36; Figs. 1, 4A ‘110’ and 5 ‘210’), where the caller is not associated with the subscriber’s wired terminal (20e) and associated (e.g., extension) wireless terminal (34) and the system (e.g., via devices 30, 16b, 24) generate signaling messages to set up and route calls (see col. 12, lines 24-39; col. 20, line 66 - col. 21, line 13),

wherein the first outgoing communication comprises a wireless call indication digit appended to the first identifier (e.g., wireline number) (see col. 16, lines 4-7; col. 20, lines 39-43; Figs. 4a-b and 5), where the system must have an indicator (e.g., flag) associated with the wireline number to indicate to look-up (or mapping or translation) a wireless number in the other (e.g., external) table or database and where the directory number for the wireless

Art Unit: 2617

terminal is stored in the database of the SCP for the extension services provided and the system (e.g., via devices 30, 16b, 24) generate signaling messages to set up and route calls (see col. 12, line 41 - col. 13, line 8; col. 16, line 52 - col. 17, line 19; Figs. 4a-b and 5),

the wireless call indication digit (e.g., a flag) indicating that the first outgoing call is to be routed via a second identifier (e.g., wireless number) associated with the wireless terminal (34) (see col. 16, lines 4-7; col. 20, lines 39-43; Figs. 4a-b and 5), where the system must have an indicator (e.g., flag) associated with the wireline number to indicate to look-up (or mapping or translation) a wireless number in the other (e.g., external) table or database,

wherein the second identifier (e.g., wireless number) is not available to the means (e.g., services node 30) for placing the first outgoing communication and the second outgoing communication (see col. 15, lines 40-53; col. 12, lines 11-24; col. 16, lines 4-7; col. 20, lines 39-43; Fig. 1), where the directory number for the wireless terminal is stored in the database of the SCP for the extension services provided and a look-up of the wireless directory number, and

wherein the wireless call indication digit is operative to trigger a query to an associated database (i.e., other (e.g., external) table or database) for the second identifier (e.g., wireless number) (see col. 16, lines 4-7; col. 20, lines 39-43; Figs. 4a-b and 5), where the system must have an indicator (e.g., flag) associated with the wireline number to indicate to look-up (or mapping or translation) a wireless number in the other (e.g., external) table or database, and

wherein, if the wireless terminal (34) is determined to have the voice messaging system, a predetermined time period is configured for placing the second outgoing communication is

Art Unit: 2617

placed before the first outgoing communication is answered by the voice messaging system (see col. 9, lines 29-39; col. 29, lines 29-38; col. 1, lines 31-44; Figs. 4A-B);

means for routing the second outgoing communication to the wired terminal (20e) (see col. 21, line 2-25; Fig. 1);

means for detecting a second terminating trigger and the wireless call indication digit associated with the wireless terminal in response to the first outgoing communication (see col. 16, lines 4-30; col. 21, lines 13-25; Figs. 4A-B, 5), where the trigger determines the status of the wireless unit (see col. 21, line 2-25; Fig. 1) and the system (e.g., via devices 30, 16b, 24) generate signaling messages to set up and route calls (see col. 12, lines 24-39; col. 20, line 66 - col. 21, line 13); and

the means for routing, in response to a detection of the second terminating trigger and the wireless call indication digit further operative for routing, the first communication to the wireless terminal (34) (see col. 16, lines 4-30; col. 21, lines 26-48; Figs. 4A-B and 5), where the system (e.g., via devices 30, 16b, 24) generate signaling messages to set up and route calls (see col. 12, lines 24-39; col. 20, line 66 - col. 21, line 13). O'Neil does not specifically disclose having the features means for determining, in response to detection of the incoming communication, whether an identifier associated with the calling party is identical to an identifier of the wireless terminal of the subscriber, wherein the wireless terminal and the calling party terminal are the same terminal when the identifier associated with the calling party is identical to the identifier of the wireless terminal, wherein when the identifier associated with the calling party does not match the identifier of the wireless terminal the wireless terminal is deemed available. However, the examiner maintains that the features

means for determining, in response to detection of the incoming communication, whether an identifier associated with the calling party is identical to an identifier of the wireless terminal of the subscriber, wherein the wireless terminal and the calling party terminal are the same terminal when the identifier associated with the calling party is identical to the identifier of the wireless terminal, wherein when the identifier associated with the calling party does not match the identifier of the wireless terminal the wireless terminal is deemed available was well known in the art, as taught by Knoerle.

Knoerle discloses the features means for determining, in response to detection of the incoming communication, whether an identifier (e.g., secondary line) associated with the calling party is identical to an identifier (e.g., wireless line) of the wireless terminal of the subscriber, wherein the wireless terminal and the calling party terminal are the same terminal when the identifier (e.g., secondary line) associated with the calling party is identical to the identifier (e.g., wireless line) of the wireless terminal (see col. 2, lines 16-37; Fig. 1),

wherein when the identifier associated with the calling party does not match the identifier of the wireless terminal the wireless terminal is deemed available (see col. 2, lines 31-37).

As a note, Knoerle at the least further discloses the feature wherein the identifier of the wireless terminal of the subscriber is stored in a service control point (116 SCP) (see col. 2, lines 16-37; Fig. 1). As further support, Knoerle at the least further discloses the feature(s) a means for determining if the subscriber currently has the simultaneous ring service activated (see col. 2, lines 20-23; Fig. 1).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of O'Neil and Knoerle to have the features

means for determining, in response to detection of the incoming communication, whether an identifier associated with the calling party is identical to an identifier of the wireless terminal of the subscriber, wherein the wireless terminal and the calling party terminal are the same terminal when the identifier associated with the calling party is identical to the identifier of the wireless terminal, wherein when the identifier associated with the calling party does not match the identifier of the wireless terminal the wireless terminal is deemed available, in order to provide a simultaneous ring service to subscriber's primary and secondary lines, as taught by Knoerle (see col. 1, lines 39-42).

Regarding **claim 19**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 18), in addition O'Neil further discloses the system of claim 18, wherein the means for placing first and second outgoing communications further includes:

means for connecting the incoming communication to the wired terminal (20e) when the wired terminal (20e) is answered before the wireless terminal (34) (see col. 21, lines 50-59; Figs. 4a-b and 5); and

means for connecting the incoming communication to the wireless terminal (34) when the wireless terminal (34) is answered before the wired terminal (20e) (see col. 21, lines 50-59; Figs. 4a-b and 5).

Regarding **claim 20**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 19), in addition O'Neil further discloses the system of claim 19, wherein the means for placing the first outgoing communication and the second outgoing communication further includes:

means for dropping the first outgoing communication when the wired terminal (20e) is answered before the wireless terminal (34) (see col. 23, lines 38-67; Figs. 4a-b and 5); and

means for dropping the second outgoing communication when the wireless terminal (34) is answered before the wired terminal (20e) (see col. 23, lines 38-67; Figs. 4a-b and 5).

Regarding **claim 22**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 18), in addition O'Neil further discloses the system of claim 18, wherein the means for determining whether the wired terminal (20e) is available further includes means for sending a query message requesting a status of the wired terminal (20e) (see col. 16, line 66 - col. 17, line 12; Figs. 4a-b).

Regarding **claim 23**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 22), in addition O'Neil further discloses the system of claim 22, wherein the means for determining whether the wireless terminal (34) is available further includes means for sending a query message to a home location register requesting a status of the wireless terminal (34) (see col. 16, line 56-65; col. 18, line 6-19; Figs. 4a-b).

Regarding **claim 24**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 23), in addition O'Neil further discloses the system of claim 23, wherein the means for determining whether the wireless terminal (34) is available further includes means for determining that the wireless terminal (34) is available when the home location register (40) does not respond to the query message within a predetermined time period (see col. 14, lines 15-33; Figs. 1), when there is no response

within a certain period of time from the HLR of the availability of the wireless unit the system will check the VLR when the wireless unit is roaming (see col. 18, line 4-19).

Regarding **claim 25**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 18), in addition O'Neil further discloses the system of claim 18, further comprising means for routing the incoming communication to the wired terminal (20e) when it is determined that at least one of the wired terminal (20e) and the wireless terminal (34) are not available (see col. 16, line 52 - col. 17, line 12).

Regarding **claim 26**, O'Neil discloses a computer readable medium having stored thereon computer-executable instructions for causing a computer to perform a method of providing a simultaneous ring service for a subscriber, the method comprising:

detecting an incoming communication from a calling party (20a-d) to a wired terminal (20e) associated with a first identifier (e.g., wireline unit directory number) that is associated with the subscriber from a first terminating trigger associated with the first identifier (e.g., wireline unit directory number) (see col. 8, line 43-50; col. 15, lines 40-53);

determining, in response to a detection of the incoming communication, whether the wired terminal (20e) and an associated wireless terminal (34) of the subscriber are available (see col. 16, line 52 - col. 17, line 19; Figs. 4A-B and 5),

wherein determining whether the wired terminal (20e) and the wireless terminal (34) of the subscriber are available (col. 12, lines 5-40; col. 16, line 57 - col. 17, line 19; Figs. 4a-b and 5) comprises:

determining whether the wired terminal (20e) is available (see col. 12, lines 5-40; col. 16, line 57 - col. 17, line 19; Figs. 4a-b and 5),

Art Unit: 2617

determining whether the wireless terminal (34) is available (see col. 12, lines 5-40; col. 16, line 57 - col. 17, line 19; Figs. 4a “ref. 108” and 5 “ref. 208”),

determining whether the wireless terminal (34) has a voice messaging system in response to determining that the wireless terminal (34) is available (see col. 9, lines 29-39; col. 29, lines 29-38; col. 1, lines 31-44; Figs. 4A-B);

wherein a directory number (e.g., wireless directory number) for the wireless terminal (34) of the subscriber is stored at a service control point (SCP 24) (see col. 15, lines 40-54; Fig. 1), where the SCP (24) stores information (i.e., wireless and wireline directory number) in database (28); and

determining if the subscriber currently has the simultaneous ring service activated, wherein if the service is not currently activated, the wireless terminal is deemed unavailable and if the service is currently activated, the wireless terminal is deemed available (see col. 16, lines 36-51; col. 17, lines 16-19; Fig. 4a “ref. 102”); and

placing a first outgoing communication and a second outgoing communication when both the wired terminal (20e) and the wireless terminal (34) are available (see col. 20, line 66 - col. 21, line 48; Figs. 4A ‘ref. 110’ and 5 ‘ref. 210’),

wherein the first outgoing communication comprises a wireless call indication digit appended to the first identifier (e.g., wireline number) (see col. 16, lines 4-7; col. 20, lines 39-43; Figs. 4a-b and 5), where the system must have an indicator (e.g., flag) associated with the wireline number to indicate to look-up (or mapping or translation) a wireless number in the other (e.g., external) table or database and where the directory number for the wireless terminal is stored in the database of the SCP for the extension services provided and the

system (e.g., via devices 30, 16b, 24) generate signaling messages to set up and route calls (see col. 12, line 41 - col. 13, line 8; col. 16, line 52 - col. 17, line 19; Figs. 4a-b and 5),

the wireless call indication digit (e.g., a flag) indicating that the first outgoing call is to be routed via a second identifier (e.g., wireless number) associated with the wireless terminal (34) (see col. 16, lines 4-7; col. 20, lines 39-43; Figs. 4a-b and 5), where the system must have an indicator (e.g., flag) associated with the wireline number to indicate to look-up (or mapping or translation) a wireless number in the other (e.g., external) table or database,

wherein the second identifier (e.g., wireless number) is not initially available (see col. 15, lines 40-53; col. 12, lines 11-24; col. 16, lines 4-7; col. 20, lines 39-43; Fig. 1), where the directory number for the wireless terminal is stored in the database of the SCP for the extension services provided and a look-up of the wireless directory number, and

wherein the wireless call indication digit is operative to trigger a query to an associated database (i.e., other (e.g., external) table or database) for the second identifier (e.g., wireless number) (see col. 16, lines 4-7; col. 20, lines 39-43; Figs. 4a-b and 5), where the system must have an indicator (e.g., flag) associated with the wireline number to indicate to look-up (or mapping or translation) a wireless number in the other (e.g., external) table or database,

wherein placing the first and second outgoing communications includes placing the first outgoing communication (e.g., first call or leg) a predetermined time period before placing the second outgoing communication (e.g., second call or leg), wherein the predetermined time period is configured to cause the wired terminal (20c) and the wireless terminal (34) to begin ringing within 3 seconds of each other (see col. 20, line 48 - col. 21, line 13; col. 21, lines 38-48; Fig. 4a “ref. 110”), where directing a call to the wireless unit (e.g., first call or

Art Unit: 2617

leg) takes a certain time period to setup then directing the call to the wireline unit (e.g., second call or leg) so the rings would be simultaneous because of the delay through the wireless network in which the wireless terminal and wired terminal both ring at the same time, concurrently, or within a matter of time (e.g., seconds) of each other and the system (e.g., via devices 30, 16b, 24) generate signaling messages to set up and route calls (see col. 12, lines 24-39; col. 20, line 66 - col. 21, line 13), and

wherein, if the wireless terminal (34) is determined to have the voice messaging system, the predetermined time period is configured for placing the second outgoing communication before the first outgoing communication is answered by the voice messaging system (see col. 9, lines 29-39; col. 29, lines 29-38; col. 1, lines 31-44; Figs. 4A-B);

routing the second outgoing communication to the wired terminal (20e) (see col. 21, line 2-25; Fig. 1);

detecting a second terminating trigger and the wireless call indication digit associated with the wireless terminal in response to the first outgoing communication (see col. 16, lines 4-30; col. 21, lines 13-25; Figs. 4a-b, 5), where the trigger determines the status of the wireless unit and the system (e.g., via devices 30, 16b, 24) generate signaling messages to set up and route calls (see col. 12, lines 24-39; col. 20, line 66 - col. 21, line 13); and

routing, in response to detection of the second terminating trigger and the wireless call indication digit, the first communication to the wireless terminal (34) (see col. 16, lines 4-30; col. 21, line 26-48; Figs. 1, 4A-B, 5), where the system (e.g., via devices 30, 16b, 24) generate signaling messages to set up and route calls (see col. 12, lines 24-39; col. 20, line 66 - col. 21, line 13). O'Neil does not specifically disclose having the feature determining if a

calling party number matches a subscriber wireless number. However, the examiner maintains that the feature determining if a calling party number matches a subscriber wireless number was well known in the art, as taught by Knoerle.

Knoerle further discloses the feature determining if a calling party number (e.g., secondary line) matches a subscriber wireless number (e.g., wireless line) (see col. 2, lines 16-37; Fig. 1). As further support, Knoerle at the least further discloses the feature wherein a directory number (e.g., wireless line) for the wireless terminal is stored at the service control point (116 SCP) (see col. 2, lines 16-37; Fig. 1).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of O'Neil and Knoerle to have the feature determining if a calling party number matches a subscriber wireless number, in order to provide a simultaneous ring service to subscriber's primary and secondary lines, as taught by Knoerle (see col. 1, lines 39-42).

Regarding **claim 27**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 26), in addition O'Neil further discloses the computer readable medium of claim 26, the method further comprising:

connecting the incoming communication to the wired terminal (20e) when the wired terminal (20e) is answered before the wireless terminal (34) (see col. 21, lines 50-59; Figs. 4a-b and 5); and

connecting the incoming communication to the wireless terminal (34) when the wireless terminal (34) is answered before the wired terminal (20e) (see col. 21, lines 50-59; Figs. 4a-b and 5).

Regarding **claim 28**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 27), in addition O'Neil further discloses the computer readable medium of claim 27, the method further comprising:

dropping the first outgoing communication when the wired terminal (20e) is answered before the wireless terminal (34) (see col. 23, lines 38-67; Figs. 4a-b and 5); and

dropping the second outgoing communication when the wireless terminal (34) is answered before the wired terminal (20e) (see col. 23, lines 38-67; Figs. 4a-b and 5).

Regarding **claim 30**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 26), in addition O'Neil further discloses the computer readable medium of claim 26, wherein the first identifier comprises at least a first telephone number (e.g., wireline unit directory number) and wherein the second identifier comprises at least a second telephone number (e.g., wireless unit directory number) that is different from the at least a first telephone number (e.g., wireline unit directory number) (see col. 15, lines 40-50).

Regarding **claim 31**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 1), in addition O'Neil further discloses the system of claim 1, wherein the first identifier comprises at least a first telephone number (e.g., 4 wireline unit directory number) and wherein the second identifier comprises at least a second telephone number (e.g., wireless unit directory number) that is different from the at least a first telephone number (e.g., wireline unit directory number) (see col. 15, lines 40-50).

Regarding **claim 32**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 10), in addition O'Neil further discloses the

Art Unit: 2617

method of claim 10, wherein the first identifier comprises at least a first telephone number (e.g., wireline unit directory number) and wherein the second identifier comprises at least a second telephone number (e.g., wireless unit directory number) that is different from the at least a first telephone number (e.g., wireline unit directory number) (see col. 15, lines 40-50).

Regarding **claim 33**, the combination of O'Neil and Knoerle discloses every limitation claimed, as applied above (see claim 18), in addition O'Neil further discloses the system of claim 18, wherein the first identifier comprises at least a first telephone number (e.g., wireline unit directory number) and wherein the second identifier comprises at least a second telephone number (e.g., wireless unit directory number) that is different from the at least a first telephone number (e.g., wireline unit directory number) (see col. 15, lines 40-50).

Response to Arguments

4. Applicant's arguments with respect to claims 1-4, 6-12, 14-20, 22-28, and 30-33 have been considered but are moot in view of the new ground(s) of rejection necessitated by the amended language and/or new limitations.

In response to applicant's arguments, the Examiner respectfully disagrees as the applied reference(s) provide more than adequate support and to further clarify (see the above claims for relevant citations and comments in this section).

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to WILLIE J. DANIEL JR whose telephone number is (571)272-7907. The examiner can normally be reached on 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on (571) 272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/WJD,Jr/

WJD,Jr
24 September 2008

/Charles N. Appiah/
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